

JPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: T. Koshiol et al.

Title: SYNCHRONIZING CONTINUOUS SIGNALS AND DISCRETE EVENTS FOR AN IMPLANTABLE MEDICAL DEVICE

Docket No.: 279.662US1

Serial No.: 10/743,567

Filed: December 22, 2003

Due Date: N/A

Examiner: Unknown

Group Art Unit: 3762

MS Amendment

Commissioner for Patents

P.O. Box 1450

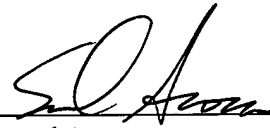
Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

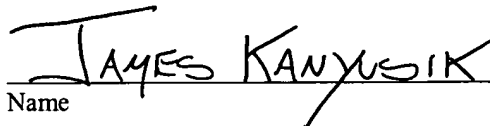
- ☒ A return postcard.
- ☒ A Communication Concerning Related Applications (2 pgs.).
- ☒ An Information Disclosure Statement (2 pgs.), Form 1449 (3 pgs.), and copies of 6 cited documents, including the International Search Report in the corresponding PCT Application No. PCT/US2004/042269.

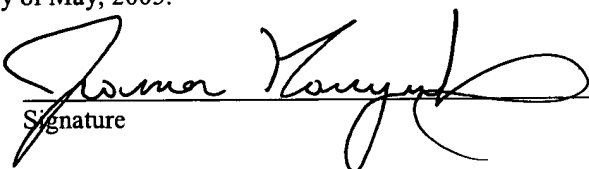
If not provided in a separate paper filed herewith, Please consider this a **PETITION FOR EXTENSION OF TIME** for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
Customer Number 21186

By: 
Atty: Suneel Arora
Reg. No. 42,267

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 6TH day of May, 2005.


Name


Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
(GENERAL)

S/N 10/743,567



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Allan T. Koshio et al. Examiner: Unknown
Serial No.: 10/743,567 Group Art Unit: 3762
Filed: December 22, 2003 Docket: 279.662US1
Title: SYNCHRONIZING CONTINUOUS SIGNALS AND DISCRETE EVENTS FOR
AN IMPLANTABLE MEDICAL DEVICE

COMMUNICATION CONCERNING RELATED APPLICATIONS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Applicants would like to bring to the Examiner's attention the following related applications in the above-identified patent application:

<u>Serial/Patent No.</u>	<u>Filing Date</u>	<u>Attorney Docket</u>	<u>Title</u>
09/382,154	August 22,	279.216US1	EVENT MARKER ALIGNMENT BY
6,535,763	1999		INCLUSION OF EVENT MARKER
			TRANSMISSION LATENCY IN THE
			REAL-TIME DATA STREAM

COMMUNICATION CONCERNING RELATED APPLICATIONS

Serial Number: 10/743,567

Filing Date: December 22, 2003

Title: SYNCHRONIZING CONTINUOUS SIGNALS AND DISCRETE EVENTS FOR AN IMPLANTABLE MEDICAL DEVICE

Page 2

Dkt: 279.662US1

10/680,731

October 7, 2003 279.653US1

METHOD AND APPARATUS FOR
MANAGING DATA FROM MULTIPLE
SENSING CHANNELS

Continuations and divisionals may be later filed on the cases listed above, or cited to the Examiner in any previous Communication Concerning Related Applications. Applicant requests that the Examiner review all continuations and divisionals of the above-listed or previously-cited patent applications before allowing the claims of the present patent application.

Respectfully submitted,

ALLAN T. KOSHIOL ET AL.

By Applicants' Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 373-6951

Date May 5, 2005

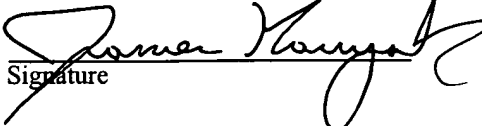
By


Suneel Arora

Reg. No. 42,267

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 6TH day of May, 2005.

JAMES KANYUSIK
Name


Signature

S/N 10/743,567



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Allan T. Koshiol et al.	Examiner:	Unknown
Serial No.:	10/743,567	Group Art Unit:	3762
Filed:	December 22, 2003	Docket:	279.662US1
Title:	SYNCHRONIZING CONTINUOUS SIGNALS AND DISCRETE EVENTS FOR AN IMPLANTABLE MEDICAL DEVICE		

INFORMATION DISCLOSURE STATEMENT

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Several of the attached documents were discovered as a result of a Search Report in Applicants' corresponding foreign patent application. Enclosed for the Examiner's information is a copy of the Search Report.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

INFORMATION DISCLOSURE STATEMENT

Serial No : 10/743,567

Filing Date: December 22, 2003

Title: SYNCHRONIZING CONTINUOUS SIGNALS AND DISCRETE EVENTS FOR AN IMPLANTABLE MEDICAL DEVICE

Page 2

Dkt: 279.662US1

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

ALLAN T. KOSHIOL ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 373-6951

Date May 5, 2005

By 
Suneel Arora
Reg. No. 42,267

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 6TH day of May, 2005.

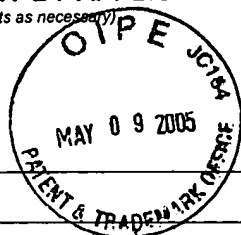
JAMES KANYUSIK
Name


Signature

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Sheet 1 of 3

Complete if Known

Application Number	10/743,567
Filing Date	December 22, 2003
First Named Inventor	Koshiol, Allan
Group Art Unit	3762
Examiner Name	Unknown

Attorney Docket No: 279.662US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-2002/0077859 A1	06/20/2002	Stahmann, Jeffrey E., et al.	12/15/2000
	US-2002/0082509 A1	06/27/2002	Vanderlinde, S , et al.	12/26/2000
	US-2002/0151809 A1	10/17/2002	Conley, Vickie L., et al.	04/08/2002
	US-4,223,678	09/23/1980	Langer, A. A., et al.	05/03/1978
	US-4,316,249	02/16/1982	Gallant, , et al.	11/09/1979
	US-4,407,288	10/04/1983	Langer, A. A., et al.	03/16/1981
	US-4,527,567	07/09/1985	Fischler, H , et al.	07/26/1982
	US-4,531,527	07/30/1985	Reinhold Jr., H. E., et al.	04/23/1982
	US-4,549,552	10/29/1985	Groch, , et al.	02/23/1984
	US-4,596,255	06/24/1986	Snell, , et al.	02/15/1985
	US-4,601,291	07/22/1986	Boute, W. , et al.	04/05/1984
	US-4,791,936	12/20/1988	Snell, J. D., et al.	06/20/1986
	US-4,809,697	03/07/1989	Causey III, James D., et al.	10/14/1987
	US-4,825,869	05/02/1989	Sasmor, L. , et al.	09/28/1987
	US-4,944,298	07/31/1990	Sholder,	05/23/1989
	US-4,964,410	10/23/1990	Leahey, E. , et al.	11/15/1988
	US-4,979,506	12/25/1990	Silvian,	08/08/1989
	US-5,209,228	05/11/1993	Cano, , et al.	10/26/1990
	US-5,217,021	06/08/1993	Steinhaus, B. M., et al.	07/30/1991
	US-5,311,874	05/17/1994	Baumann, L. S., et al.	05/18/1992
	US-5,357,969	10/25/1994	Herleikson, Earl C.	03/18/1993
	US-5,391,188	02/21/1995	Nelson, , et al.	06/17/1993
	US-5,402,794	04/04/1995	Wahlstrand, J. D., et al.	07/01/1992
	US-5,404,880	04/11/1995	Throne,	10/05/1993
	US-5,413,594	05/09/1995	Williams, Michael O.	12/09/1993
	US-5,417,714	05/23/1995	Levine, P. A., et al.	05/11/1993
	US-5,431,692	07/11/1995	Hansen, D. L., et al.	08/02/1993
	US-5,476,485	12/19/1995	Weinberg, , et al.	09/21/1993
	US-5,487,755	01/30/1996	Snell, J. D., et al.	10/25/1994
	US-5,507,786	04/16/1996	Morgan, W. A., et al.	04/14/1994
	US-5,511,553	04/30/1996	Segalowitz, Jacob	10/28/1994
	US-5,513,645	05/07/1996	Jacobson, P. , et al.	11/16/1994
	US-5,549,654	08/27/1996	Powell, R. M.	04/15/1994
	US-5,578,063	11/26/1996	Bocek, Joseph M., et al.	10/19/1995

EXAMINER**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="padding: 2px;">Complete if Known:</td> </tr> <tr> <td style="width: 50%; padding: 2px;">Application Number</td> <td style="padding: 2px;">10/743,567</td> </tr> <tr> <td style="padding: 2px;">Filing Date</td> <td style="padding: 2px;">December 22, 2003</td> </tr> <tr> <td style="padding: 2px;">First Named Inventor</td> <td style="padding: 2px;">Koshiol, Allan</td> </tr> <tr> <td style="padding: 2px;">Group Art Unit</td> <td style="padding: 2px;">3762</td> </tr> <tr> <td style="padding: 2px;">Examiner Name</td> <td style="padding: 2px;">Unknown</td> </tr> </table>	Complete if Known:		Application Number	10/743,567	Filing Date	December 22, 2003	First Named Inventor	Koshiol, Allan	Group Art Unit	3762	Examiner Name	Unknown
Complete if Known:													
Application Number	10/743,567												
Filing Date	December 22, 2003												
First Named Inventor	Koshiol, Allan												
Group Art Unit	3762												
Examiner Name	Unknown												
Sheet 2 of 3	Attorney Docket No: 279.662US1												

	US-5,591,214	01/07/1997	Lu, Richard	11/20/1995
	US-5,603,331	02/18/1997	Heemels, J. P., et al.	02/12/1996
	US-5,609,615	03/11/1997	Sanders, R S., et al.	09/22/1995
	US-5,628,776	05/13/1997	Paul, P J., et al.	04/21/1995
	US-5,653,737	08/05/1997	van Lake,	04/08/1996
	US-5,683,431	11/04/1997	Wang, L.	03/27/1996
	US-5,709,712	01/20/1998	Paul, P J., et al.	09/30/1996
	US-5,722,999	03/03/1998	Snell, J. D.	08/02/1995
	US-5,732,708	03/31/1998	Nau, P., et al.	08/09/1996
	US-5,759,196	06/02/1998	Hess, M. F., et al.	09/29/1995
	US-5,782,890	07/21/1998	Wahlstrand, J. D., et al.	01/19/1995
	US-5,792,207	08/11/1998	Dietrich,	12/18/1996
	US-5,814,083	09/29/1998	Hess, , et al.	09/29/1995
	US-5,891,178	04/06/1999	Mann, B. M., et al.	05/13/1997
	US-5,925,067	07/20/1999	Lu,	12/11/1997
	US-5,974,341	10/26/1999	Er, S. B., et al.	12/22/1997
	US-5,978,707	11/02/1999	Krig, D. B., et al.	10/08/1997
	US-6,016,442	01/18/2000	Hsu, W., et al.	03/25/1998
	US-6,016,446	01/18/2000	Belalcazar, H. A.	02/27/1998
	US-6,067,471	05/23/2000	Warren, J. A.	08/07/1998
	US-6,076,015	06/13/2000	Hartley, Jesse W., et al.	02/27/1998
	US-6,091,990	07/18/2000	Hsu, W., et al.	11/03/1999
	US-6,108,577	08/22/2000	Benser, N. E.	04/26/1999
	US-6,112,117	08/29/2000	KenKnight, B. H., et al.	05/06/1997
	US-6,243,606	06/05/2001	Mann, Brian M., et al.	08/18/1999
	US-6,263,244	07/17/2001	Mann, B., et al.	09/15/1999
	US-6,308,095	10/23/2001	Hsu, W., et al.	02/12/1999
	US-6,311,089	10/30/2001	Mann, B., et al.	08/20/1999
	US-6,312,378	11/06/2001	Bardy, Gust H.	06/03/1999
	US-6,449,504	09/10/2002	Conley, V. L., et al.	08/24/1999
	US-6,459,929	10/01/2002	Hopper, Donald, et al.	04/12/2000
	US-6,459,934	10/01/2002	Kadhiresan, Veerichetty	07/21/2000
	US-6,535,763	03/18/2003	Hiebert, James F., et al.	08/22/1999

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²
	EP-0565084A2	10/13/1993	Gilham, Jeffrey J.	
	EP-0711531A1	05/15/1996	Karlsson, P., et al.	
	EP-0850661A1	07/01/1998	Keimel, John G.	
	EP-1245248A2	10/02/2002	Levine, P. A., et al.	

EXAMINER

DATE CONSIDERED

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>	Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Application Number</td> <td>10/743,567</td> </tr> <tr> <td>Filing Date</td> <td>December 22, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Koshiol, Allan</td> </tr> <tr> <td>Group Art Unit</td> <td>3762</td> </tr> <tr> <td>Examiner Name</td> <td>Unknown</td> </tr> </table>	Application Number	10/743,567	Filing Date	December 22, 2003	First Named Inventor	Koshiol, Allan	Group Art Unit	3762	Examiner Name	Unknown
Application Number	10/743,567										
Filing Date	December 22, 2003										
First Named Inventor	Koshiol, Allan										
Group Art Unit	3762										
Examiner Name	Unknown										
Sheet 3 of 3	Attorney Docket No: 279.662US1										

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"International Search Report for corresponding PCT Application No. PCT/US2004/042269", (Attorney Docket No. 279.662WO1), (March 31, 2005), 5 pgs.	
		TANENBAUM, A. S., "Computer Networks", <u>Prentice-Hall, Inc., Englewood Cliffs, NJ</u> , (1981), 125-128	

EXAMINER

DATE CONSIDERED